

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001653010009-6

STARY, Jaroslav, dr.

Weather and aircraft. Letecky obzor 8 no. 11:333-334 N '64.

APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001653010009-6"

STARÝ, Jaroslav, dr.

Special aircraft Travels 1-2 and Chrysler, Letecky obzor 9 no. 2:52
F 1965.

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001653010009-6

STARY, Jaroslav, dr.

Special aircraft. Letecky obzor 9 no.3:79 Mr '65.

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CIA-RDP86-00513R001653010009-6"

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CIA-RDP86-00513R001653010009-6

STARY, Jaroslav, dr.

Special aircraft. Letecky obzor 9 no.4:106-107 Ap '65.

APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001653010009-6"

R. J. R. - A.

ACC NR: AP6013151

(A)

SOURCE CODE: CZ/0078/66/000/004/0010/0010

INVENTOR: Stary, Jaroslav (Engineer; Prague)55
B

ORG: None

TITLE: [A circuit for phase and frequency comparison] CZ Pat. No. PV 6912-64,
Class 2la

SOURCE: Vynalezy, no. 4, 1966, 10

TOPIC TAGS: phase shift analysis, frequency shift, signal analysis, pulse signal,
transistorized circuit

ABSTRACT: This patent introduces a circuit for comparing the phase and frequency of a signal with square synchronizing pulses with the same parameters of a second signal which has odd symmetry with differing active and retrace intervals. The input circuit of the comparator has two outputs. When the first signal is fed to the input, a square-wave signal is generated at each output in synchronization with the input signal and in opposition with the other output signal. A capacitor and diode are connected in series at the first output, while a second capacitor and diode are connected in the same way at the second output. The second signal for comparison is fed to the tie point between the interconnected series circuits. The output voltage is proportional to the frequency difference or phase shift between the two series circuits at the tie points between capacitor and diode. This resistor is shunted by an additional

Card 1/2

L 36838-66

ACC NR: AP6013151

capacitor. The input circuit consists of two transistors (T_1 and T_2) of opposing conductivity with emitters connected to opposite terminals ($+U-U$) of the voltage supply, and collectors connected to a neutral point (A). The first signal for comparison is fed through a capacitor (C_5) to the base of the first transistor (T_1). The base of the second transistor (T_2) is connected through a capacitor (C_6) to the tie point (A₄) between two resistors (R_5 , R_6) connected in series between the collector of the first transistor (T_1) and a neutral point (A₀). [Translation]

SUB CODE: 09/ SUBM DATE: 09Dec64

Card 2/2

STARY, Miroslav J. of Am. Cv. Soc.
I Oct. 1954
glass

PATENTS

✓ Device for drawing off artificial fibers from the spinneret,
especially fibers spun from the molten mass. JOSEF ZMELÍK,
MIROSLAV STARY, BOHUMÍL PILLER, AND JAN PINKAVA (Elite,
Sdružené továrny punčoch, národní podnik, and Závody pre
chemickú výrobu, národný podnik). U. S. 2,595,044, April 29,
1952.—Glass fibers are drawn by means of rollers located below
the spinneret.

(4)

PR!

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001653010009-6

STARY, Miroslav, inz.

"Fibers in the future" by Zd.Travnick. Reviewed by Miroslav
Stary. Nova technika no.12:568-569 D '60.

APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001653010009-6"

SPITALNIK, Zdenek; STARY, Miloslav; BELSKY, Milan

Processing of fluorine exhalations from superphosphate plants.
Chem prum 13 no.9:458-460 S '63.

1. Vyzkumny ustav anorganické chemie, Usti nad Labem.

Neurology

CZECHOSLOVAKIA

UDC 616-009.7

STARY, O.; Affiliation not given.7.

"Pain and the Problems of its Objective Assessment."

Prague, Casopis Lekaru Ceskych, Vol 105, No 43, 28 Oct 66, pp
1161 - 1164

Abstract: Centripetal transmission of pain excitation is described. The function of thin myelinized fibers A delta to epsilon and non-myelinized fibers C is discussed. The influence of the endocrine glands in the perception of pain is evaluated. Mechanism of pain reception in less developed animals is reviewed. Study which the author made of the reaction of the electrical resistance of the skin during painful excitation is discussed. Induction of hemi-cranial seizures by histamine injection in patients suffering from migraine is described. Author's study of nociceptive induction of painful vertebrogenic syndromes is reviewed. The importance of the condition of the higher nervous activity in the perception of pain is discussed. No references.

1/1

STARY, O.

Significance of the Pavlovian theory in clinical neurology. Neur.
psychiat. cesk. 14 no.2-4:51-57 Aug 51. (CML 21:5)

DRECHSLER, B.; LEWIT, K.; STARY, O.

Variation of localization of cortical motor function. Neur. Psychiat.
cesk. 15 no. 1-2:27-34 Apr 1952. (CLML 22:3)

1. Of the Neurological Clinic (Head--Prof. K. Henner, M. D.) of
Charles University, Prague.

STARY, Oldrich, As. dr.

Pathogenesis of migraine according to Vvedenskii's and Pavlov's theories. Cas.lek.cesk. 91 no.43:1217-1220 24 Oct 52.

1. Z neurologicke kliniky Karlovy univeristy, Prednosta: prof. dr. Kamil Henner.

(MIGRAINE, etiology and pathogenesis,
Pavlov's & Vvedenskii's theories)

STAKY, O.

"The Second Polish Neurology Congress in Warsaw."

SO: *Neurol. a psych.*, Prague, Vol. 16 (1953), No. 4, pp. 195-204.

Wojciech, W.

"Remarks on the Pathogenesis and Treatment of Disc Dislocation in the
the Region of the Cervical Column."

SO: Neurol. a psych., Prague, Vol. 16 (1953), No. 4, pp. 204-208.

STARY, Oldrich, MUDr

Problem of pain from reflexological view. Cesk. otolar. 3 no.4:
153-158 Nov 54.

(PAIN, physiology
reflexol. aspect)

(REFLEX, CONDITIONED, in various diseases
pain)

STARY, OLDRICH, DR.

STARY, Oldrich, Dr

Reflex vasomotor disorders in nociceptive radical irritation in discopathies. Neur. & psychiat. cesk. 17 no.3:179-186 Je '54.

1. Z neurologicke kliniky Karlovy university v Praze, prednosta prof. Dr K.Henner.

(INTERVERTEBRAL DISKS, diseases,

*reflex vasomotor disord. in nociceptive radical irritation in discopathies)

LEWIT, K., Dr.; STARY, O., dr.

Modifications of skin temperature following therapeutic interventions in diskogenic syndromes. Neur. & Psychiat. cesk. 18 no.6:407-413 Nov 55.

1. Z neurologicke kliniky Karlovy university v Praze,
prednosta akademik K. Henner.

(BODY TEMPERATURE, in various diseases,

intervertebral disk displacement, eff. of
various ther. procedures on skin temperature. (Cs))

(INTERVERTEBRAL DISK DISPLACEMENT, therapy

eff. of various procedures on skin temperature. (Cs))

STARY, O.Dr.Doc.; DRECHSLER, B.Dr.; HLADKA, V., Dr.; NEVSMAL, O.Dr.

Pathophysiology of the paravertebral muscles and of the acute discogenic syndroms. Cas. lek. cesk. 44 no.13:339-346 25 Mar 55.

1. Neurol. klin. K.U., predn. akademik K.Henner.

(INTERVERTEBRAL DISC, diseases

funct. lability of motoric analyzer, diag. electromyographic
exam. of paravertebral musc.)

(ELECTROMYOGRAPHY, in various diseases

intervertebral disc dis., diag. by exam. of paravertebral
musc.)

(MUSCLES

paravertebral, electromyographic exam. in diag. of dis.
of intervertebral disc)

KUNC, Zd., Doc., MUDr.; STARY, O., Doc., MUDr.; SETLIK, L., MUDr.

Results of the surgical treatment of intervertebral disk
displacement in view of evaluation of work capacity. Cas.
lek. cesk. 94 no.44:1186-1189 28 Oct 55.

1. Z chirurgickeho oddeleni UVN, Praha,--Z neurologické
kliniky Karlovy university, prednosta akademik K. Henner.
Z neurologickeho oddel. UVN, Praha.

(INTERVERTEBRAL DISK DISPLACEMENT, surgery
results, capacity to work.)

(WORK
capacity, evaluation after surg. of intervertebral
disk displacement.)

MIRATSKY, Zdenek, Dr.; STAHY, Oldrich, doc., dr.; SOUKUPOVA, Marta

Further experiences with conditioned defense and proprioceptive reflexes in restoration of movement stereotypes in spastic paralysis.
Cesk. neur. 19 no.4:221-233 Nov 56.

1. Universita Karlova, Neurologicka klinika, prednosta: akademik
prof. K. Hanner.

(PARALYSIS, therapy,

conditioned defense & proprioceptive reflexes in
restoration of movements in spastic cases (Cz))

(REFLEX, CONDITIONED,

defense & proprioceptive reflexes in restoration of
movements in spastic paralysis (Cz))

BEDNAR, B., Doc. Dr.; DRECHSLER, B., Dr.; KARPISEK, J., Dr.; STARY, O., Doc. Dr.

Xanthomatous multiple neuritis with idiopathic hyperlipemia & mild diabetes. Cesk. neur. 20 no.5:324-334 Sept 57.

l. Hlavuv I. pathologickoanatomicky ustav KU, zastupce prednosti doc. Dr B. Bednar Neurologicka klinik KU, prednosta akademik K. Henner Statai sanatorium V Praze 16.

(DIABETES, MELLITUS, compl.

hyperlipemia with xanthomatous multiple neuritis (Cz))

(LIPIDS, in blood

excess, with diabetes mellitus & xanthomatous multiple neuritis (Cz))

(POLYNEURITIS, compl.

diabetes mellitus with hyperlipemia in xanthomatous multiple neuritis (Cz))

FIGAR, Stepan; STARY, Oldrich

Results of polyrhoeographic examination of disturbances in sensory
afferentation. Cesk. neur. 21 no.6:382-392 Nov 58.

1. Laborator grafickych vysetrovacich metod CSAV Praha, prednosta
akademik Vilem Laufberger Neurologicka klinika Karlovy university,
prednosta akademik Kamil Henner.

(INTERVERTEBRAL DISK DISPLACEMENT, physiol.

electrical skin resist. reaction after section of sen-
sitive nerve roots (Cz))

(REFLEX, PSYCHOGALVANIC

electrical skin resist. reaction after section of sen-
sitive spinal nerve roots in intervertebral disk displace-
ment (Cz))

(NERVES, SPINAL, physiol.
same)

STARY, O.; OBRDÁ, K.

Current concepts in treatment of discopathy. Cas. lek., cesk. 97 no. 18:
561-568 2 May 58.

1. Neurologicka klinika KU v Praze, prednosta akademik K. Henner.
O. S. Praha 2, Katerinska 30.
(INTERVERTEBRAL DISK DISPLACEMENT, ther.
(Cz))

STARY, O.

Electroencephalography in conditioning. Cas. lek. cesk. 97 no.38:207-
214 19 Sept 58.

(REFLEX, CONDITIONED
EEG (Cz))
(ELECTROENCEPHALOGRAPHY,
in conditioned reflexes (Cz))

MIRATCKY, Zdenek; STARY, Oldrich

Significance of formation of conditioned proprioceptive reflexes
in the restoration of motor functions in hemiplegic patients.
Cesk. neur. 22 no.6:349-357 N'59.

1. Neurologicka klinika EIU v Praze, prednosta akademik Kamil
Henner.

(HEMIPLAGIE physiol.)
(REFLEX CONDITIONED)

MIRATSKY, Z.; OBRNA, K.; BERANKOVA, M.; CHODERA, R.; STARY, O.

Significance of cervical reflexes in the re-education of hemiplegic patients. *Cesk. neur.* 22 no.6:358-366 N '59.

1. Neurologicka klinika KU v Praze, prednosta akademik Kamil Henner.
(HEMIPLEGIA rehabil.)
(NECK physiol.)

MIRATSKY, Z.; STARY, O.

The importance of conditioned proprioceptive reflexes for the recovery of motor function in hemiplegics. Rev.Czech.M. 6 no.2:
85-93 1960.

1. Neurological Clinic, Charles University, Prague, Director:
Academician K. Henner.
(REFLEX CONDITIONED)
(HEMIPLEGIA physiol)

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CIA-RDP86-00513R001653010009-6

MACEK, Z.; STARY, O.

15 Years of neurology in the Czechoslovak People's Republic. Cesk.
neur. 23 no.3:147-151 Mr '60.
(NEUROLOGY)

APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001653010009-6"

STARY, O.; MIRZHATSKIY, Z.; BERANKOVA, M.

Use of reflexes in the restoration of movements in hemiplegia.
Report no.1: Conditioned defense reflexes. Zhur.nevr.i psikh.
60 no.1:9-17 '60. (MIRA 13:6)

1. Nevrologicheskaya klinika (zav. - akademik Kamil Genner)
Karlova universiteta, Praga.
(REFLEX CONDITIONED)
(HEMIPLEGIA ther.)

MIRZHATSKIY, Z.; STARYY, O.; BERANKOVA, M.

Experience with the application of reflexes in the restoration of movements in hemiplegia. Report No.2: Tendinous and periosteal reflexes. Zhur.nevr.i psikh 60 no.8:953-956 '60. (MIRA 13:9)

1. Nevrologicheskaya klinika (zaveduyushchiy - akademik K.Genner)
Karlova universiteta, Praga.
(PARALYSIS) (REFLEXES)

MIRATSKY, Zdenek; OBREDA, Karel; STARY, Oldrich

Relfex therapy of spastic paralysis. Cas. lek. cesk. 99 no.17:
520-527 22 Ap '60.

1. Neurologicka klinika MU v Praze, prednosta akademik prof. dr.
Kamil Henner.

(PARALYSIS SPASTIC ther.)
(REFLEXOTHERAPY)

STARY, Oldrich; VYMAZAL, Josef; PROCHAZKOVA, Zdena, labor spoluprace VONKOVA,
Jirina

Study of histaminopexy in disseminated sclerosis. Cesk. neur. 24
no. 6: 361-370 N '61.

1. Neurologicka klinika KU v Praze, prednosta akademik Kamil Henner.

(MULTIPLE SCLEROSIS blood) (HISTAMINE blood)

CZECHOSLOVAKIA

O. STARY, K. OBRDA, J. PFEIFFER and M. BERANKOVA, Neurologic Clinic of Faculty of General Medicine (Neurologicka klinika fakulty vseobecneho lekarstvi); Head Academician K. HENNER, Charles University, Prague.

"Polyelectromyographic Study of Disturbances of Proprioceptive Analysis in Incipient Discopathies in Children."

Prague, Ceskoslovenska Neurologie, Vol 26, No 2, 1963; pp 81-87.

Abstract [English summary modified]: Polyelectromyographic study of 8 muscle groups in each of 30 grammar school children, along with complete clinical examination. There were functional disturbances of the spine noted in 20: slight scoliosis, sacro-iliac displacements and similar early defects. These were mostly accompanied by asymmetric electromyographic patterns, with a statistically significant degree of correlation between the 2 criteria. Four electromyograms, 4 graphs; 4 Czech and 6 Western references.

1/1

CZECHOSLOVAKIA

O. STARY, S. FIGAR, M. TUNACEK, D. KREJCI, V. HLADKA and J. VYMAZAL,
Neurologic Clinic of the Faculty of General Medicine of Charles
University (Neurologicka klinika fakulty vseobecneho lekarstvi KU
[Karlove Universita],); Head (prednosta) Academician K. HENNER; and
Physiology Institute of the Czechoslovak Academy of Sciences (Fyziologicky
ustav CSAV [Ceskoslovenska akademia vied],); Chief (reditel) Prof Dr
Z. SERVIT; Prague.

"Acupuncture in Discogenic Radicular Affections and Polyrheographic
Reactions of Involved Segments."

Prague, Ceskoslovenska Neurologie, Vol 26, No 2, 1963; pp 104-111.

Abstract [English summary modified]: An attempt to evaluate scientifically
acupuncture whose "undeniable" successes (especially in trigeminal neuralgia
and discopathies) one of the authors saw during a recent study trip in Red
China; 42 patients with discogenic radicular syndromes involving primarily
L5 and S1 were treated with an average of 3 applications on the points
prescribed by traditional Chinese medicine; clinical evaluation of results
was supplemented by polyrheographic and skin temperature change

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Prague, Ceskoslovenska Neurologie, Vol 26, No 2, 1963; pp 104-111.

recordings during and after as well as before treatment. Clinically results excellent in 12, good in 18, no change in 10. Electrical skin resistance changes during and after treatment were recorded in 23: in 5, paradoxical increase, in 9 no change, in 9 decrease, concomitant with clinical improvement. Skin temperature changes did appear in 16 out of 17 so observed. Authors conclude that effect on the vasomotor reflexes is undeniable but it is only one of the factors involved in acupuncture. Four Soviet, 1 Western, 8 Czech (including thesis by author S.F.) ref's. Also 6 Graphs and 2 tables.

2/2

FIGAR,S.; STARY,O.; HLADKA,V.

Changes in vasomotor reflexes in painful vertebrogenic syndromes. Cesk. neurol. 26 no.6:353-360 N'63.

1. Fyziologicky ustav CSAV v Praze (reditel prof. dr. Z.Servit, DrSc., a Neurologicka klinika fakulty vseobecneho lekarstvi KU v Praze (prednosta akad. K.Henner).

*

STARY, O.

Principles of research on the vertebrogenic syndrome in the
Czechoslovakian SSR. Cesk. neurol. 27 no.4:209-213 Jl '64

1. Neurologicka klinika fakulty všeobecného lekarství KU
[Karlov University] v Praze; prednosta: akademik K. Henner.

STARY, O.; FIGAR, S.; ANDELOVA, E.; HLADKA, V.; JANSKY, M.; KALVODOVA, E.

Analysis of disorders of vasomotor reactions in lumbosacral syndromes. Cesk. neurol. 27 no. 4:214-218 Jl '64

1. Neurologicka klinika fakulty vseobecneho lekarstvi KU [Karlov University] v Praze (prednosta: akademik K. Henner) a Fyziologicky ustav CSAV [Ceskoslovenske akademie ved] v Praze (reditel: prof. dr. Z. Servit).

STARY, O.; OBDRA, K.; PFEIFFER, J.; BERANKOVA.

Polyelectromyographic examination of disorders of proprioceptive analysis in the initial stages of vertebrogenic disease in children. Cesk. neurol. 27 no.4:219-223 Jl'64

1. Neurologicka klinika fakulty vseobecneho lekarstvi KU [Karlov University] v Praze; prednosta: akademik K. Henner.

FICAR, S.; VITWY, F.; HLUKA, V.

Changes in vasomotor reflexes in painful vertebrogenic syndromes.
Rev. Czech. med. 10 no.4:238-246 '64.

1. Institute of Physiology, Czechoslovak Academy of Sciences,
Prague (Director: Prof. Z. Servit, M.D., DSc.) and Department
of Neurology, Faculty of General Medicine, Charles University,
Prague (Director: Academician K. Henner).

MIRATSKY,Z.; SUSSOVA, J.; STARY, O.

Electroencephalographic analysis of the origin and dixation
of conditioned pain reflexes in lumbar disk lesions. Cesk.
neurol. 27 no.4:260-263 Jl'64

1. Neurologicka klinika fakulty vseobecneho lekarstvi KU
(Karlov University) v Praze (prednost: zakademik K. Henner)
a Fyziologicky ustav CSAV [Ceskoslovenske akademie ved] v
Praze (reditel: prof. dr. Z. Servit).

FIGAR,S.; STARY, O.

Stimulus modality and inverse vascular responses. Activ. nerv.
sup. (Praha) 7 no.2:188-189 '65

1. Institute of Physiology, Czechoslovak Academy of Sciences and
Department of Neurology, Charles University, Prague. 2. S.Figar's
address: Praha 2, Katerinska 30.

L 12842-66 EWT(1)/EWA(j)/EWA(b)-2 RO

ACC NR: AP6005711 SOURCE CODE: CZ/0082/65/000/003/0213/0219

44,55
AUTHOR: Stary, O.; Figar, S.33
BORG: Neurological Clinic, Faculty of General Medicine, Charles University, Prague
(Neurologicka klinika fakulty vseobecneho lekarstvi KU); Physiological Institute,
Czechoslovak Academy of Sciences, Prague (Fyziologicky ustav CSAV)

44,55

TITLE: Mediator and higher nervous mechanisms in vasomotor reactions in vertebrogenic lesions

SOURCE: Ceskoslovenska neurologie, no. 3, 1965, 213-219

TOPIC TAGS: neurology, reflex activity, clinical medicine

ABSTRACT:

Plethysmographic studies of vasomotor reflexes in 98 lumbosacral and 58 cervical lesions are described. The reaction depends on the intensity of the pain suffered. The mediator mechanism of the inverse vasomotor reactions and its localization are discussed. It appears that they have a cholinergic mechanism. Quality of stimulation is decisive in inverse vasodilator reactions and in their blocking by atropine. It appears that the higher nervous centers and not the peripheral vasomotor synapse are responsible for inverse vasomotor reactions. Orig. art. has: 4 figures. [JPRS]

SUB CODE: 06 / SUBM DATE: none / ORIG REF: 021 / OTH REF: 013
SOV REF: 003
Card 1/1 HU

L 12943-66

ACC NR: AP6005678

SOURCE CODE: CZ/0079/65/007/002/0188/0189

AUTHOR: Figar, S.; Stary, O.

30

ORG: Institute of Physiology, Czechoslovak Academy of Sciences; Department of Neurology, Charles University, Prague

B

TITLE: Stimulus modality and inverse vascular responses [This paper was presented at the Third Interdisciplinary Conference on Experimental and Clinical Study of Higher Nervous Functions held in Marianske Lazne from 19 to 23 October 1964.]

SOURCE: Activitas nervosa superior, v. 7, no. 2, 1965, 188-189

TOPIC TAGS: drug effect, man, blood circulation, neurology, nervous system drug

ABSTRACT: Influence of the quality of the stimulus on inverse, vasodilator responses in painful vertebrogenic syndromes was studied. 55 healthy subjects and 25 patients with an algètic reticular syndrome were tested for the vascular responses elicited by standard stimuli. In healthy subjects, vasodilator response occurred in 10.9 to 16.1% in algètic patients. An atropine injection changed the inverse vasodilator response to normal vasoconstriction to nociceptive and sound stimuli in 96 and 72%, respectively. In inverse vasomotor responses important part is played by higher nervous activity components. [JPRS]

SUB CODE: 06 / SUBM DATE: none

Card 1/1 HW

STARY, P.

Fauna of aphid parasites(Hymenoptera, Aphidiidae) of the
southern Crimea. Ent. oboz. 41 no.4:875-877 '62.
(MIRA 16:1)

1. Institut biologii Chekhoslovatskoy Akademii nauk, Praga.

(Crimea—Parasites—Plant lice)

STARY, Petr

The generic classification of the family Aphidiidae (Hymenoptera).
Cas entom 57 no.3:238-252 '60. (EEAI 10:1)

1. Institute of Entomology, Czechoslovak Academy of Science, Prague.
(Plant lice) (Hymenoptera)

STARY, Petr, C.Sc.

Two new species of Praon Haliday from Czechoslovakia (Hym., Aphidiidae).
Cas entom 58 no.4:340-343 '61.

1. Czechoslovak Academy of Sciences, Institute of Entomology, Praha
2, Vinicna 7.

(Hymenoptera)

STARY, Petr, CSc.

Biological control of Megoura viciae Beck. in Czechoslovakia. Cas
entom 61 no.4:301-322 O '54.

1. Institute of Entomology of the Czechoslovak Academy of
Sciences, Prague 2, Vinicna 7. Submitted October 5, 1963.

STARY, Petr, kandidat biologicheskikh nauk Vinichna (Vinicna)7, Praga)

Aphid fauna of honey plants as a source of subsidiary hosts of
aphid wasps (Hymenoptera, Aphidiidae) Cas entom 59 no.1:42-58 '62

1. Chekhoslovatskaia Akademiia Nauk, Institut Entomologii, Praga.

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001653010009-6

STARY, S., inz.

Wasting water is expensive. Vodni hosp 13 no.5:196 '63.

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CIA-RDP86-00513R001653010009-6"

15.8110 1209, 1372, 1407

21282
G/004/61/008/004/001/003
B120/B206

AUTHORS: Leziva, J. M., Lidářík, M., and Starý, S.

TITLE: Effect of structure of various polyphenols on the properties of epoxy resins

PERIODICAL: Plaste und Kautschuk, v. 8, no. 4, 1961, 171-174

TEXT: The effect of structure of the phenolic component on the properties of epoxy resins of medium molecular weight was studied. Preparation of the phenolic component: The bisphenols (2)-(9) in Table 1 were prepared by condensation of the corresponding ketone and aldehyde, respectively, with phenol or o-cresol at a molar ratio 1:1.78 in the presence of 72.5% H₂SO₄ and a

small amount of toluene and thioglycolic acid at 40°C; (12) by melting 62 g of 2-methyl-4-tert-butyl-6-methylophenol with 105 g of 2-methyl-4-tert-butyl phenol, addition of 5 g of HCl concentrate at 90°C, heating to 120°C for one hour, distilling off in vacuum of the nonreacted 2-methyl-4-tert-butyl phenol, rinsing of the residue with petroleum ether, and recrystallizing from gasoline; (13) by melting 42 g of 4-tert-butyl-2,6-dimethyl phenol with 280 g of 4-tert-butyl phenol, addition of 7 ml of HCl concentrate, slow

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G/004/61/008/004/001/003
B120/B206

Effect of structure ...

solidifying under stirring and cooling, distilling off the nonreacted 4-tert-butyl phenol through water vapor distillation, and double recrystallizing of the residue from ethanol. Preparation of epoxy resins: To a mixture of 1 mole of bisphenol, 1.33 moles of epichlorohydrin and dioxane (30%, related to bisphenol), 1.40 moles of NaOH (in 30% solution) was added dropwise at 70°C in the course of 2 hr, then kept for 2 hr at 75°C, and then the mixture butanol - xylene (1:3) was added in the same proportion by weight as the original bisphenol. In the bisphenols (2) and (11) (see Table 1) dioxane had to be used as solvent, in (1) the part insoluble in butanol - xylene was dissolved by addition of dioxane. Two layers formed which were separated, the resin solution was cooled, neutralized with CO₂, dehydrated by azeotropic distillation, filtered, and the solvent was finally removed at 170°C in vacuum. The resins from bisphenols (6) and (10) were dried by means of silica gel. Properties of epoxy resins as dependent on the structure of the phenolic component: see Table 2. Explanations: Column 9: the cementing was hardened at 180°C for 2 hr, and the properties were rated according to Lidarik, M., Plaste und Kautschuk, v. 7 (1960), p. 55. Column 12: test of the produced epoxy resins for their suitability as stoving lacquers. These were produced according to Swiss patent 257115 of the Ciba AG (August 30,

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G/004/61/008/004/001/003

B120/B206

Effect of structure ...

1949). Stoving lacquers made from the very easily accessible 2,2-bis(4-hydroxy-3-methyl-phenyl)-propane of good yield show unsatisfactory properties, even after combination with a resin from dimerized fatty acids and triethylene amine. Casting resins from 2,2-bis(4-hydroxy-3-methyl-phenyl)-propane, hardened with phthalic anhydride, show insufficient strength properties as compared with those from 2,2-bis(4-hydroxy-phenyl)-propane (the values of resins made from 2,2-bis(4-hydroxy-phenyl)-propane are in parentheses): tensile strength 147 (460-510) kg/cm², flexural strength 541 (700-810) kg/cm², impact flexural strength 5 (16-24) kg/cm²; the resistance to heat according to Vicat is about equal: 116(115)^oC; the electric insulation properties are inferior: dielectric constant 4.58(3.66), loss factor at 800 cycles, 0.069(0.0011), resistivity 10¹⁵(10¹⁶) Ω .cm. Table 3 shows the measured values for the deformation test according to Höppler after hardening the resins with phthalic anhydride (one molecule for 2 epoxy groups). Preparation of test pieces: the resin was heated to 120^oC, the phthalic anhydride was stirred in for 10-15 min, the mass was then poured into the mold, and the test pieces (cylinder: 11.5 cm diameter, 8 cm height) were dried at 120^oC for 17 hr. Conclusions: The epoxy resin properties strongly depend on the structure of the initial polyphenols. 2,2-bis(4-hydroxy-phenyl)-propane produces resins of universal applicability. Resins of special properties

Card 3/8

G/004/61/008/004/001/003
B120/B206

Effect of structure ...

can be produced by using other polyphenols. There are 6 tables and 25 references: 3 Soviet-bloc and 22 non-Soviet-bloc. The three most recent references to English-language publications read as follows: W. Erich and M. J. Bodmar, Appl. Polymer Sci., v. 3(1960), p. 296. O. Stephenson, Soc. v.1954, p. 1571. W. E. Clair, Brit. P. 799629 (February 4, 1957), Union Carbide Corp., Swiss. P. 341002 (April 2, 1955).

ASSOCIATION: Forschungsinstitut für synthetische Harze und Lacke, Pardubice (ČSSR) (Research Institute of Synthetic Resins and Lacquers. Pardubice, Czechoslovakia)

Legends to the Tables: Table 1: (a) raw materials used, (b) melting point, °C, (c) determined, (d) according to publications, (e) trimuclear novolak from p-tert-butyl phenol. Table 2: Properties of produced epoxy resins: (1) polyphenol, (2) analysis, (3) content of epoxy groups, (4) chlorine content, (5) melting point, (6) solubility in (7) toluene, (8) mineral spirit, (9) properties of the glue with dicyano diamide, (10) tensile shearing strength, (11) resistance to heat according to Vicat, (12) lacquer film properties (hardened for 60 min at 180°C), (13) on glass, (14) on sheet steel, (15) hardness, measured by pendulum tester according to Persoz, (16) aspect, (17) thickness of layer, (18) flexibility test according to Erichsen, (19)

Cari 4/3

S/061/63/000/001/057/061
B144/B186

AUTHORS: Lidárik, Miloslav, Dufek, Jan, Stáry, Stanislav, Smrká,
Jindřich

TITLE: Production of epoxy resins

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 1, 1963, 539, abstract
1T130 (Czechosl. patent 100282, July 15, 1961)

TEXT: Epoxy resins are obtained when epihalohydrin and its derivatives react in the presence of a Friedel-Crafts catalyst with mono- and polyatomic phenols, alcohols, bisphenols, or phenol resins, and the resultant mixture of halohydrin ethers of phenol compounds (or the mixture of separately prepared halohydrin ethers) and alcohol is dehydrohalogenated in high-alkaline medium. By way of example, 1 mole diane and 10 moles ethyl chlorohydrin are mixed in a flask and heated under stirring to 70°C. 1/3 triethanol amine (related to diane) and 3% NaCl in 15% aqueous solution are added. The mixture is heated to boiling and then left for 4 hrs. Then, 0.12 mole glycerin-tris-chlorohydrin ether is introduced, which has been prepared by reaction of 3 moles ethyl chlorohydrin and 1 mole

Card 1/2

Production of epoxy resins

S/081/63/000/001/057/061
B144/B186

glycerin with BF_3 catalyst by heating to 65-75°C for 3 hrs. To the mixture of chlorohydrin ethers, 2.36 moles NaOH in the form of 20% aqueous solution is added dropwise within 3 hr 45 min and left for 15 min. Then, 300 g benzene is added, the aqueous layer is separated and the resin solution is neutralized with CO_2 to pH 6.5. The solution is dried with calcined soda and filtered, and the transparent filtrate is separated from the ethyl chlorohydrin excess by low-pressure distillation. [Abstracter's note: Complete translation.]

Card 7/2

LIDARZHIK, M. [Lidarik, M.]; STARY, S.; MLEZIVA, Y.

Cationic polymerization of glycidol ethers. Vysokom.sosed. 5
no.11:1738-1747 N '63. (MIRA 17:1)

1. Nauchno-issledovatel'skiy institut sinteticheskikh smol i lakov,
Chekhoslovakiya.

LIDARZHY, M.; STARY, S.; MLEZIVA, Y.

Anionic polymerization of glycidol ethers. Vysokom.sosed. 5 no.11:
1748-1753 N '63. (MIRA 17:1)

l. Nauchno-issledovatel'skiy institut sinteticheskikh smol i lakov,
Chekhoslovakiya.

LIDARIK, Miloslav, inz. CSc.; STARY, Stanislav

New types of epoxy casting resins. Elektrotechnik 19 no.5:
140-143 My '64.

1. Research Institute of Synthetic Resins and Lacquers, Pardubice.

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001653010009-6

DUDÁK, Miroslav; ČERNÝ, Stanislav; ČERNÝ, Josef

Ionic polymerization of glycidyl ethers. Česká věstí 14
no. 10: 521-525 O '64.

1. Research Institute of Synthetic Resins and Lacquers,
Brno, Czechoslovakia.

APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001653010009-6"

ACC NR: AP6031836

(A)

SOURCE CODE: CZ/0009/66/000/007/0414/0420

AUTHOR: Lidarik, Miloslav; Stary, Stanislav; Tanchyna, Jiri

ORG: Research Institute for Synthetic Resins and Lacquers, Pardubice (Vyzkumný ustav syntetických průškyr a laku)

TITLE: Ion exchange polymerization catalysts for manufacturing epoxy resins

SOURCE: Chemicky prumysl, no. 7, 1966, 414-420

TOPIC TAGS: catalytic polymerization, ion, epoxide, epoxy
EXCHANGE resin, ion

ABSTRACT: This article discusses the practical uses of ion exchange polymerization catalysts for the manufacture of epoxy resins and is a supplement to and a continuation in depth of a treatment of the subject which appeared in previous publications. The results obtained so far from the investigation of the ion exchange polymerization of epoxy resins carried out at the Research Institute for Synthetic Resins and Lacquers at Pardubice are surveyed, and it is pointed out that the overall increased importance of epoxy resins, in particular their increased applications in the electrical industry, is due to the possibility of hardening them by ionization polymerization. They are suitable for use in cast resins, in insoluble lacquers, impregnation resins, in glues,

Card 1/2

UDC: 66.095.264; 679.576; 679.5:621.3

ACC NR: AP6031836

in surfaces toatings, etc. The development of catalysts for this type of hardening has still not been completed, but the progress made so far in improving the qualities of epoxy resins indicates that there is real hope for further improvement. Orig. art. has: 1 figure and 20 tables.

SUB CODE: 07, 11/ SUBM DATE: none/ ORIG REF: 004/ Sov REF: 002/ OTH REF: 003

Card 2/2

ACC NR: AP6031836

(A)

SOURCE CODE: CZ/0009/66/000/007/0414/0420

AUTHOR: Lidarik, Miloslav; Stary, Stanislav; Tamchyna, JiriORG: Research Institute for Synthetic Resins and Lacquers, Pardubice (Vyzkumný ustav syntetických průškyrnic a laku)
16TITLE: Ion exchange polymerization catalysts for manufacturing epoxy resins

SOURCE: Chemicky prumysl, no. 7, 1966, 414-420

TOPIC TAGS: catalytic polymerization, ion, epoxide, epoxy resin, ion exchange

ABSTRACT: This article discusses the practical uses of ion exchange polymerization catalysts for the manufacture of epoxy resins and is a supplement to and a continuation in depth of a treatment of the subject which appeared in previous publications. The results obtained so far from the investigation of the ion exchange polymerization of epoxy resins carried out at the Research Institute for Synthetic Resins and Lacquers at Pardubice are surveyed, and it is pointed out that the overall increased importance of epoxy resins, in particular their increased applications in the electrical industry, is due to the possibility of hardening them by ionization polymerization. They are suitable for use in cast resins, in insoluble lacquers, impregnation resins, in glues,

Card 1/2

UDC: 66.095.264; 679.576; 679.5:621.3

ACC NR: AP6031836

in surfaces toatings, etc. The development of catalysts for this type of hardening has still not been completed, but the progress made so far in improving the qualities of epoxy resins indicates that there is real hope for further improvement. Orig. art. has: 1 figure and 20 tables.

SUB CODE: 07, 11/ SUBM DATE: none/ ORIG REF: 004/ SOV REF: 002/ OTH REF: 003

Card 2/2

STARY, V.

Operational reserve funds of a collective farm.
p. 20.
ROLINICKE HLASY. (Ministerstvo zemedelstvi.
Hlavni aprava jednotnych zemedelskych druzstev)
Praha.
Vol. 10, no. 6, June 1956.

SOURCE: EEAL LC Vol. 5, No. 10, Oct. 1956

STARY, V.

STARY, V. The final draft for the control of work and work units. p. 19.
Prefabricated structures in agriculture. p. 20.

Vol. 10, no. 12, Dec. 1956
ROLNICKE HLASY
AGRICULTURE
Czechoslovakia

So: East European Accession, Vol. 6, No. 5, May 1957

STARY, V.

Establishing an accounting system on new collective farms; order in financial matters and control as a means of making members content.

p. 15 (ROLNICKE HLASY) Vol. 11, no. 11, Nov. 1957,
Praha, Czechoslovakia

SO: Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 3,
March 1958

STARY, V.

Assembly of the T03-B prototype dwelling house of slag-concrete storey-high blocks.
p. 240

POZEMNI STAVBY. (Ministerstvo stavebnictvi) Praha, Czechoslovakia, Vol. (7),
no. 5, (May) 1959.

Monthly List of East European Accessions (EEAI), LV, Vol. 8, no. 7, July 1959
Uncl.

STARY, V.

Employees of machine-tractor stations help to improve bookkeeping and economic analyses on collective farms. p. 198.

MECHANISACE ZEMEDELSTVI. (Ministerstvo zemadelstvi a lesniho hospodarstvi) Praha,
Czechoslovakia, Vol. 8, no. 9, Sept. 1959.

Monthly List of East European Accessions (EEAI), LC, Vol. 8, no. 11, Nov. 1959
Uncl.

STARY, V.

Experiences with the wage system for tractor operators on collective farms.
p. 199.

MECHANISACE ZEMEDELSTVI. (Ministerstvo zemedelstvi a lesniho hospodarstvi) Praha,
Czechoslovakia, Vol. 9, no. 9, Sept. 1959.

Monthly List of East European Accessions (EEAI), LC, Vol. 8, no. 11, Nov. 1959
Uncl.

STARY, Z.

Changes in the composition of serum proteins in pregnancy. Z. Stary, P. Bursa, O. Terok, and R. Cindri (Univ. Istanbul). Hoppe-Seyler's Z. physiol. Chem., 289, 55-61 (1951).--The individual serum protein fractions contain prosthetic carbohydrate groups. The hexose (I) and acetyl-glucosamine (II) units which make up the carbohydrate portion can be detd by pptg. the protein, hydrolyzing, and detg. I and II concns. in the hydrolysate. Normally serum contains 170-200 mg. polysaccharide per 100 cc., of which $\frac{2}{3}$ is I and $\frac{1}{3}$ is II. Serum protein-bound carbohydrate is also much greater than free serum glucose. In the first trimester of pregnancy protein-bound carbohydrate increases markedly although serum protein concn. is diminished. Serum protein-bound carbohydrate consists of 2 separate types: (a) glucoprotein which by salt fractionation is found in the albumin portion and (b) the globulin portion contg. 4.5% carbohydrate. In pregnancy the serum protein carbohydrate rise occurs in the albumin fraction and is double the normal value, while the albumin fraction itself is somewhat diminished. No significant alteration occurs in the globulin carbohydrate fraction. Bernard Klein

STARZY-Z

MD

✓5349. Retarded movement of carbohydrate-containing proteins of serum in paper electrophoresis. Z. Starý and A. Ugur *Klin. Wschr.*, 1955, **38**, 766-767 (Biochem. Inst., Univ. Istanbul, Turkey).
Serum mucoids when added to normal serum and subjected to electrophoresis in the Tiselius apparatus appear as a double humped zone in the albumin fraction, but when examined by paper electrophoresis a single-humped zone appears in the α -globulin fraction only. (German) G. W. CAMBRIDGE

FRIC, Viktor; DOHNALEK, Jarmil; STARY, Zdenek, inz.

Magnetron 60 SA 51 for industrial use. Sbor vek elektrotech
3:36-51 '61.

1. Vyzkumny ustav pro valkuovou elektrotechniku, Praha.

FRIC, Viktor; STARY, Zdenek, inz.

Contribution to the design of magnetron output transformers.
Sbor vak elektrotech 3:62-73 '61.

STARY, Zdenek, inz.

Tasks of the water resource management in 1963. Vodni hosp 13
no.4:121-122 '63.

1. Ministerstvo zemedelstvi, lesniho a vodniho hospodarstvi.

SMADL, Most, Czechoslovakia, 1970-1971, denkt: Zeman, Vlach, Vaclav; PRVNE, Dvorce

Chief of railroads operations in a coalfield district. Del 7;
Arch 13 no.3:Suppl:1:1-6

1. Head of the Unit of Operations, Isti nad Labem (for Smadl).
2. Director of the No. 1 Coal ... lignite District (for Ausberger).
3. Head of Transportation Service of the Doly Vitezneho Vojtěcha National Enterprise (for Stary).
4. Director of the Doly Vitezneho National Enterprise, Komorany (for Zeman).
5. Head of Transportation Service of the Coal Preparation Plant, Komorany (for Brodak).
6. Chief of the Most Railroad Junction (for Sikl).

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CIA-RDP86-00513R001653010009-6

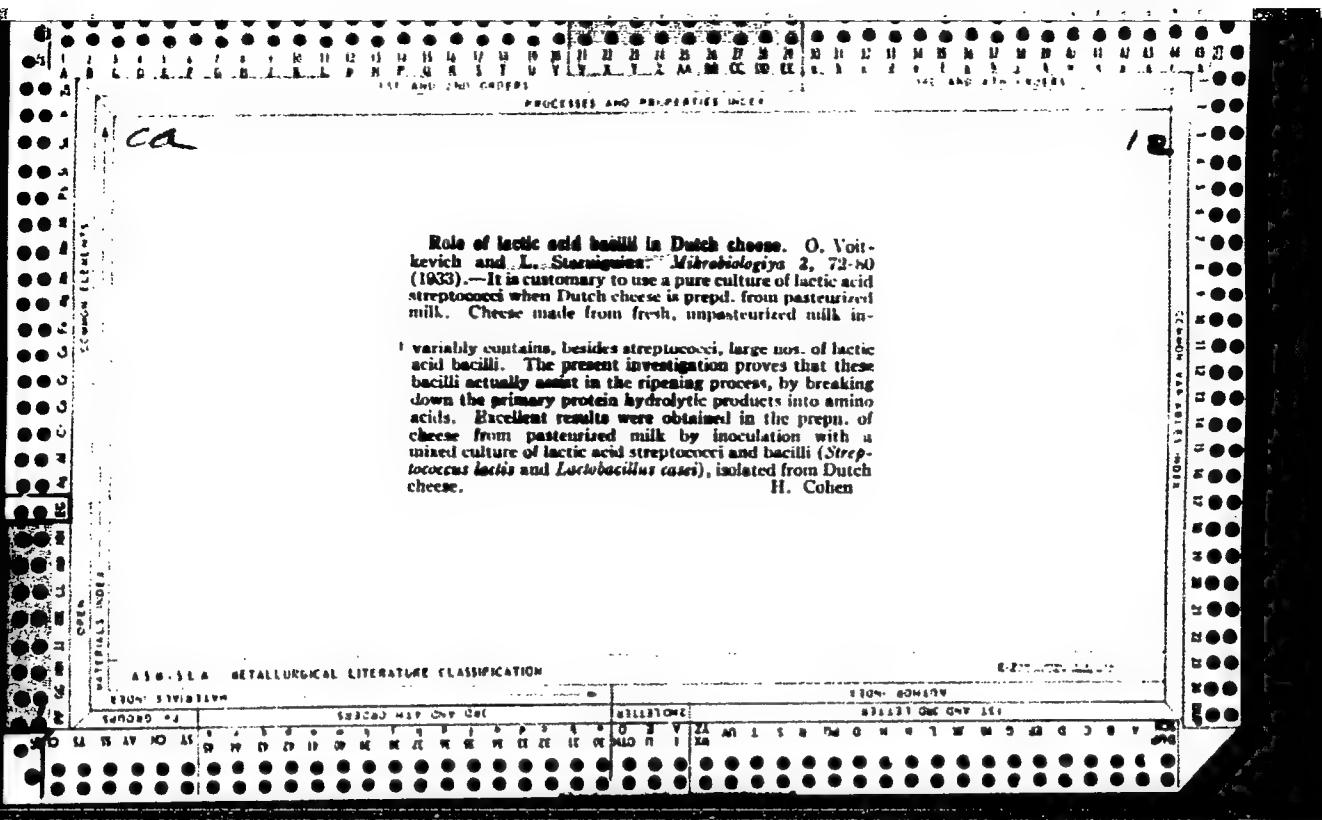
SIR YU?

Starogin, M. - "Preparation of seed for sowing," Doklady 2-iy Resp. Agrotekhn. konf-tsii
Mariyek ASSR, Kirovoblagovensk, 1948, p. 155-73

SO: U-3630, 10 July 52, (Letotis 'Zhurnal 'nykh Statey, No. 5, 1949).

APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001653010009-6"



STARYGINA (Mme L. P.), GOLDIN (M. I.), LYAGINA (Mme N. M.), &
TRYASUNOVA (Mme T. I.). *Mulberry bacteriosis*.—*Mikrobiol.*
[Microbiol.], ix, pp. 282-294, 1940. [Russian, with English sum-
mary. Abs. in *Chem. Abstr.*, xxxv, 11, p. 3681, 1941.]

The various strains of *Bacterium* [*Pseudomonas*] *mori* isolated from
samples of mulberry leaves from the Ukraine, Crimea, and other
regions of the U.S.S.R. [see preceding abstract] were found to be
identical in their morphology, physiology, and agglutinative action,
and to correspond with the description of the organism given by
[E. F.] Smith (*Science*, N.S., xxxi, p. 792, 1910). Cultures of *P. mori*
remain stable and retain their virulence at a temperature range of
0° to 30° C. for a lengthy period, which is curtailed by warmer con-
ditions or desiccation. Infection is not seed-borne, but may overwinter
in diseased foliage in the soil and spread during the next growing season.

Inst. Agrie. - Micro., Moscow

STARYGINA, L. P.

STARYGINA, L. P., nad SHISHELOVA, N. A. "Bacteriosis of Cabbage (Black Rot of Cabbage Seedlings, *Bacterium campestre*)," Doklady Vsesoiuznoi Akademii Sel'skokhoziaistvennykh Nauk imeni V. I. Lenina, vol. 12, no. 5, 1947, pp. 27-29. 20 Akl.

РУССКАЯ

STAROGINA (Мме L. P.) & SHISHLOVA (Мме N. A.). Возбудители мягкой гнили семянников капусты. [Agents of soft rot in Cabbage grown for seed].—Микробиология [Microbiology], 17, 2, pp. 160-170, 1 pl., 1948.
[Received June, 1949.]

The results of experiments carried out at the Moscow Department of the Pan-Union Institute for Agricultural Microbiology demonstrated that most of the bacteria causing soft rot in cabbage were pathogenic in varying degrees to potato tubers, carrot roots, and cabbage and potato seedlings. When grown on nutrient medium the cultures were characterized by the instability of their morphological-cultural characters (shape of colonies and cells, colour, and growth) besides the differences in pathogenicity. Many agreed with the causal organism of black leg [*Erwinia phytophthora*: R.A.M., 27, p. 119], isolated from a potato stem, but the majority can be tentatively referred to as *Bacterium carotovorus* [*E. carotovora*: ibid., 28, p. 306].

146A

RUDAKOV (K. I.), STAROIGINA (Mme. L. P.), & SHISHKOVA (Mme. N. A.). Мякоть гниль овощей [Soft rot of vegetables.] Докл. Акад. Сельскох. Наук Ленина [Rep. Lenin Acad. agric. Sci.], 1950, 10, pp. 25-28, 1950.

In the cabbage-growing regions of central U.S.S.R. the plants and especially the seeds are attacked by soft rot due to *Erwinia carotovora* [E.A.M., 28, p. 555], which is difficult to control, and to *Bacillus meyeri*, *B. subtilis*, and especially *B. polymyxa* [cf. ibid., 29, p. 83]. The latter group causes rot only at temperatures over 35° C. and of the aerial parts only; they are infected from the soil by the contact of the lower leaves or by insects. The most effective measures for controlling rot by the latter group are the lowering of the temperature of the soil and preventing its contact with the lower leaves as well as avoiding unfavorable conditions of nutrition, removing the lower leaves of year-old cabbage, and the destruction of cabbage insects.

STARYGINA, L. P.

USSR/Biology, Agricultural - Plant Diseases Jan/Feb '52

"Bac. Polymyxa as a Causative Factor of Soft Rot
[Myagkaya Gnil'j," L. P. Starygina, Moscow Branch,
All-Union Inst of Agr Microbiol

"Mikrobiologiya" Vol XXI, No 1, pp 52-59

Cultures of Bac. polymyxa closely resemble those of Erw. carotovora both morphologically and in regard to culture characteristics. The process of spore formation exhibits great variability in Bac. polymyxa. This microorganism causes the same damage (soft rot) in potato tubers, cabbage stumps, and green plants as Erw. carotovora, but at a higher temp than the latter.

223T1

STARYGINA, L.P.

F-1

USSR / Microbiology. General Microbiology

Abs Jour : Ref Zhur - Biol., No 2, 1958, No 5062

Author : Starygina, L.P., Oksent'yan, U.G.

Inst : Not given

Title : Characteristics of Smooth (S) and Folded (R) Forms of
Ps. Fluorescens Liquefaciens.

Orig Pub : Mikrobiologiya, 1956, 25, No 5, 529-532

Abstract : It has been shown that R forms of Ps. fluorescens liquefaciens differ in their chemical properties (curdling and peptonization of milk, liquefaction of gelatin, fermentation of sucrose) from the S forms by somewhat higher activity. R forms are also characterized by greater antibiotic activity in relation to *Bacillus subtilis* and *B. pumilus* and

Card : 1/2

STARYGINA, L.P.

✓Antibiotic activity of *Pseudomonas fluorescens liquefaciens*. L. P. Starygina (All-Union Sci. Research Inst. Agr. Microbiol., Moscow). *Mikrobiologiya*, 25, 700-5(1956).— Cultures of *P. fluorescens liquefaciens* from infected koh-saghyz roots were tested against *Escherichia coli*, *Bacillus subtilis*, *B. pumilus*, *Aerobacter aerogenes*, *Sarcina*, *Saccharomyces cerevisiae*, *Rhizobium meliloti*, *R. trifoli*, and *Erwinia carotovora* in solid mediums with various carbohydrates and with glycerol. There was some antibiotic activity against all these organisms, and even against the S and R forms of *P. fluorescens liquefaciens* itself, but no characteristic differences which could be used for distinguishing between varieties or strains. Julian F. Smith.

DATE : 1957
COUNTRY : PLANT PATHOLOGY, Diseases of Cultivated Plants.

AUTHOR : G. V. KARPOV, N. A. SOKOLOVA, N. A. SPINACHELOVA, N. A.

EDITOR : G. V. KARPOV
PUBLISHER : "Zemledelstvo", Moscow, No. 5599
TITLE : Soft Rot in Vegetable Crops and Control Measures.

ORIG. PUBL. Kyiv, Naukova Dumka, 1958, po s.-kb.
pikkidol., 1957, No. 2, 24-25
ABSTRACT : It has been determined by the authors that soft rot can be caused, besides by *Erwinia carotovora*, by soil saprophytes as well: (*Pseudomonas fluorescens*, *Bac. polymyxa*, *Bac. mucilaginosus*, *Bac. pumilus*, and others). These bacteria were discovered within the tissues of outwardly healthy plants. In distinction to *E. carotovora* the protopectinase bacilli are widely distributed in soils and are constantly found in plant remains. In

CART : 1/3

6

1. The main direction of the work is:

2. The main direction of the work is: The Ministry of Agriculture, N.S., 6599

3. The main direction of the work is:

4. The main direction of the work is:

5. The main direction of the work is: a) the breeding of the resistance of the plants to diseases; b) through the creation of seeds of infection by disturbances in the agrotechny used in raising the crops. --G.V. D'yakova

6. The main direction of the work is:

7. The main direction of the work is:

STAR YGINA, L.P.

<p>20(1) AUTHORS: Afryan, E. K.; Kuchayeva, A. G., Candidates of Biological Sciences</p> <p>TITLE: Use of Antibiotics in Plant Cultivation (primenessy's anti-biotiky v rasteniyosistemye).</p> <p>PERIODICAL: Vestnik Akademii Nauk SSSR 1959, № 1, pp. 142-143 (USSR)</p>	<p>ABSTRACT: A conference dealing with this subject took place in Tver' from 8 to 13 October 1958. It had been called by the Institute of Microbiology of the Academy of Sciences of the Ukrainian Institute of Sciences of the USSR, the Parusovskiy Institute of Soil Science and Veterinary Microbiology of the Ukrainian Institute for Agricultural Microbiology of the USSR (VNIIM) and the Sector of Microbiology of the Institute of Sciences of the Ministry of Agriculture of the USSR (Minzhetekhnika).</p> <p>M. I. Chichkov reported about microbe metabolites which promote the development of higher plants.</p> <p>N. P. Podol'skaya reported on investigations of soil bacteria and its utilization in the fight against agricultural plant diseases.</p> <p>V. V. Lepikhin, S. M. Petrenko dealt with the utilization of fungi, trichoderma in fighting the diseases of cotton bushes, potatoes and some other agricultural products.</p> <p>H. G. Mirzakhanova reported deals with the operations of antibiotic factories which produce active antibiotics against the carriers of potato wart disease and diplodia in onions.</p> <p>G. Gribanova, V. M. Kuznetsov spoke about the utilization of the actinomycetes antibiotics in fighting potato ring rot and potato bacteria in cabbage.</p> <p>O. I. Zubakovskaya reported on the effect of preparations from cultures of actinomycetes to prevent wilt of the cotton bush.</p> <p>A. S. Ljubimova, Yu. A. Dobrolyubova, Ye. S. Shchegoleva, T. S. Tumashova, Yu. S. Ljubimova, B. D. Slobodchikov, Ye. S. Shchegoleva spoke about the successful utilization of several bacteria against diseases of vegetable cultures and potato wilt.</p> <p>N. P. Yerushkevich, G. G. Slobodchikov, D. N. Radnitskaya dealt with the utilization of phytopathogenic microflora in fighting several fungal diseases in plants.</p> <p>D. N. Radnitskaya, E. N. Lutina, L. A. Kostyleva, Ye. S. Shchegoleva, mentioned results obtained in investigations of phytopathogenic fungi, as well as the utilization in fighting diseases occurring in cotton bushes and beans.</p> <p>B. N. Galaktionov, Yu. P. Frantsel'yan, A. G. Krasavina, Ye. S. Shchegoleva tried the effect of antibiotic preparations on a transverse stripe against bacterial blight in fighting diseases of decorative plants.</p> <p>Ie. Ye. Barba, E. F. T. Balashkova described the investigation of plant antibiotics.</p> <p>Z. N. Zelikman, J. B. Shul'ga spoke about the production of the preparations gremodioline and cetylsteatol and their application on fungal carriers of disease in cabbage, onions and other vegetables.</p> <p>A. I. Sosulin reported on venous adjuvants in the utilization of antibiotics against plant viruses.</p> <p>E. I. Terpil'skii, N. D. Bykovets, M. N. Kuzikovskaya dealt with the formation of phytoprogen forms of bacteria resistant to antibiotics.</p> <p>E. A. Vinogradova, N. D. Serebrjakova described a method of rapid determination of the effect of antibiotics on plants. The participants in the conference found the work carried out in this field in the USSR insufficient. The organization of an industrial production of antibiotics and microbial preparations for the purposes of their large-scale practical introduction in agriculture was pointed out as necessary. The necessity of an internationalization of joint investigations of the growth stimuli and the development of plants of microbial origin was further pointed out. The importance of coordination of work for purposes of research and utilization of antibiotics in plant breeding was emphasized as well as the holding of periodical conferences dealing with this problem.</p>
<p style="text-align: center;">Card 2/4</p>	<p style="text-align: center;">Card 3/4</p>
<p style="text-align: center;">Card 4/4</p>	<p style="text-align: center;">Card 5/4</p>

Card 2/4

APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001653010009-6"

BEREZOVА, Ye.; BORODULINA, Yu.; BUSHUYЕVA, P.; GEL'TSER, F.; GOLIKOV, V.;
DOROSINSKIY, L.; KOZLOVA, N.; KRAKHIN, P.; KRUGLOV, N.; LAZAREV, N.;
LAMPOVSHCHIKOV, P.; MAKAROVA, M.; MARKOVA, Z.; NESTEROVA, Ye.;
PROKHOROV, M.; SOROKINA, T.; STARYGINA, L.; KHUDYAKOV, Ya.

Ivan Il'ich Samoilov; obituary. Mikrobiologiya 28 no.2:318-
319 Mr-Ap '59. (MIRA 12:5)
(SAMOILOV, IL'IA IL'ICH, 1900-1958)

IZRAIL'SKIY, V.P., prof.; doktor biolog.nauk; SHUSTOVA, L.N., kand.med.
nauk; GORLENKO, M.V., doktor biolog.nauk; MURAV'YEV, V.P.;
BEREZOWA, Ye.F., doktor biolog.nauk; SUDAKOVA, L.V., mikrobiolog;
GRUSHEVOY, S.Ye., doktor sel'skokhoz.nauk; NEMLIYENKO, F.Ye.,
doktor biolog.nauk; BEI'TYUKOVA, K.I., doktor biolog.nauk; STARYGINA,
L.P., kand.biolog.nauk; PERSHINA, Z.G., kand.biolog.nauk; ART'YEV'YEVA,
Z.S., mikrobiolog; NOVIKOVA, N.S., kand.biolog.nauk; OSNITSKAYA, Ye.A.,
fitopatolog; YASHNOVA, N.V., fitopatolog-mikrobiolog; MIKZABEK'YAN,
R.O., kand.biolog.nauk; TETYUREVA, I.V., red.; PEVZNER, V.I., tekhn.red.

[Bacterial diseases of plants] Bakterial'nye bolezni rastenii. Izd.2.,
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(Bacteria, Phytopathogenic) (Plant diseases)

STARYGINA, L.P.; BIRKEI', M.R.

Indices of the effectiveness of antibiotics used against gummosis
in cotton. Trudy Vses. inst. sel'khoz. mikrobiol. 17:5-17 '60.
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(Antibiotics) (Gummosis) (Cotton--Diseases and pests)

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STARYGINA, L.P.; BIRKEL', M.R.; SAFAROV, Sh.A.

Antibiotics in the control of gummosis in cotton, Trudy Vses. inst.
(MIRA 15:3)
sel'khoz. mikrobiol. 17:60-67 '60.
(Cotton--Diseases and pests) (Gummosis) (Antibiotics)

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AUTHOR: Staryk, P. M. (Starik, P. M.)

ORG: Chernovtsy State University (Chernivets'ky derzhuniversytet)

TITLE: Electrical properties of PbTe with bismuth impurities

SOURCE: Ukrayins'ky fizichnyy zhurnal, v. 11, no. 3, 1966, 265-270

TOPIC TAGS: lead compound, telluride, electric conductivity, Hall constant, electron mobility, hole mobility, Hall mobility, carrier density, activation energy, valence band

ABSTRACT: The electrical properties of single crystals of PbTe alloyed with bismuth are investigated. The crystals were grown by the Bridgman method. Introduction of $\sim 10^{19}$ atoms/cm³ of bismuth resulted in n-type conductivity with a carrier density of about 10^{19} cm⁻³. At lower bismuth concentrations the lower portion of the crystals has p-type and the upper portion n-type conductivity. Similar results were obtained with zone refining, indicating that the bismuth distribution was nonuniform. In samples cut from the same crystal, the bismuth content may have increased on approaching the n-type region. The electrical conductivity and Hall coefficient of eight samples were measured by standard dc methods. Measurements were also made using PbTe samples with impurity levels produced by bismuth

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and donor levels produced by excess lead. The hole density in all n-type PbTe samples with bismuth impurities was of the order of $3 \times 10^{18} \text{ cm}^{-3}$ regardless of the bismuth concentration. The Hall mobility and its temperature dependence was the same as for unalloyed crystals. A slight increase in the Hall coefficient and a rather considerable decrease in the Hall mobility were noted in crystals cut out near the p-n junction. Upon annealing, the conductivity of p-type samples decreased, the Hall coefficient in the impurity region increased, and the inversion temperature shifted to lower values. The Hall mobility increased with decreasing temperature like $T^{-2.8}$. In some samples prolonged annealing at 165°C results in a change from p-type to n-type conductivity. It is found that alloying of PbTe with bismuth produces both shallow donor levels with activation energy $\Delta E = 0$ and comparatively deep acceptor levels at $\Delta E = 0.065$ ev above the valence band. Annealing at 160°C leads to a decrease in the concentration of deep acceptor levels. The author thanks Candidate of Phys.-Math Sciences, K. D. Tovstyuk, and the senior scientist P. I. Voronyuk for assistance with the work and valuable advice. Orig. art. has: 5 figures and 4 formulas.

SUB CODE: 20/ SUBM DATE: 28Dec64/ ORIG REF: 002/ OTH REF: 002

Card 2/2 86

STARYKH, A.M.; KOVAL', V.O.

Manufacture of particle board made by extrusion compression
from aspen pulp. Der. prom. 14 no.12:20-22 D '65.
(MIRA 18:12)

YEROMIN, V.L.; TSEKASHEV, A.V.; SIBIGUMA, G.V.; SPALYAN, I.F.

Some problems in the diagnostic use of radionuclides Cr¹ in
the determination of gastrointestinal hemorrhage and I-131 labeled
rose bengal in liver function tests. Vest. AMN SSSR. 18 no.10:
'70-71 163.

(MIRA 17:6)

L. P. Centralnyj institut po voprosam zdravookhraneniya vrachey Ministerstva
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STARYKH, L.A., inzh.

Theory of the operation of automatic, electric towing winches. Sud. sil.
ust no.2:123-138 '63. (MIRA 17:1)

L. Leninskogo gosudarstvennogo inzhenernoye morskoye uchilishche im. admirala
Makarova.

STARYKH N.A.

127-12-26/28

AUTHORS: Voroshilov, O.V., Chief Geologist of the Temir-Tau mine, and
Starykh, N.A., Senior Engineer

TITLE: "Drilling of Blasting Holes by Pneumatic Drills" by A.L.
Skornyakov (A.L. Skornyakov, Prokhodka vzryvnykh skvazhin
pnevmodarnikami)

PERIODICAL: Gornyy Zhurnal, 1957, No 12, p 71 (USSR)

ABSTRACT: This note is a review of the book published by the Metal-
lurgizdat in 1957. The reviewer points out that the book
under discussion takes up many essential problems which thus
far were elucidated in literature only in the form of in-
dividual disconnected data. The author succeeded in uniting
the results of recent years in drilling deep bore holes for
blast operations by means of various pneumatic drills and
machines. Some defects and inaccuracies of the book are also
pointed out.

ASSOCIATION: Temir-Tau mine (rudnik Temir-Tau)

AVAILABLE: Library of Congress

Card 1/1

YEL'TSOV, A.V.; CHIGAREV, A.G.; STARYKH, N.T.

N-aralkyl derivatives of phenylpyrrolidines. Zhur. ob. khim. 34
no.10:3344-3351 0 '64. (MIRA 17:11)

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Leningrad.